Claims:

What is claimed is:

1   1. A method for managing resources in a data processing system, said method comprising:

2   defining at least one type of resource, together with a quantity associated with that type of

3   resource, said quantity being indicative of resource capacity, said type of resource being selected

4   from the group consisting of hardware level resources, operating system level resources and

5   application level resources;

6   determining whether a user has requested use of said at least one resource;

7   determining availability of said requested resource as to type and quantity;

8   dispatching a user job which requests said resource upon the condition that said resource

9   is available in the type and quantity requested.

2. The method of claim 1 in which said hardware level resources are selected from the group
consisting of CPUs and random access memory.

1   3. The method of claim 1 in which said operating system level resource is virtual memory.

1   4. A method for providing a user with control of a data processing system, said method

2   comprising the steps of:

3   analyzing user supplied command statements which provide access to resources having

4   internal resource models, said resource models including, for each resource, a type and a quantity

5   description, wherein at least one resource model is defined consistently across multiple data

6   processing system levels; and

interpreting said command statements so that user jobs are scheduled to run and to use resources specified by said command statements.